

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-038354

(43)Date of publication of application : 06.02.2002

(51)Int.Cl.

D03D 1/00  
D03D 11/02  
D03D 15/04  
D06C 7/02

(21)Application number : 2000-230211 (71)Applicant : OZAKI ORI MARK KK

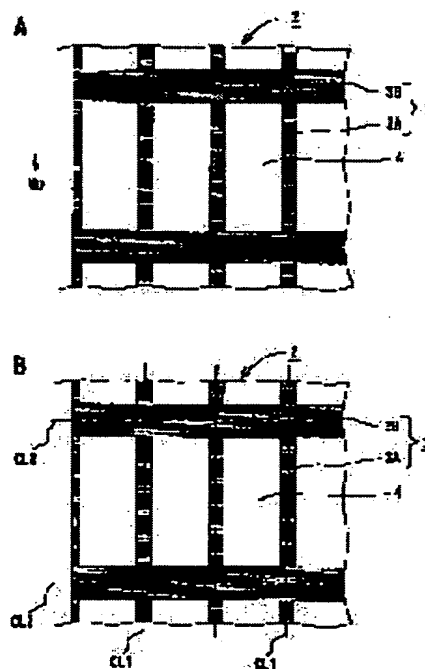
(22)Date of filing : 31.07.2000 (72)Inventor : OZAKI RYOTARO

(54) WOVEN FABRIC SUCH AS WOVEN NAME FABRIC OR EMBLEM HAVING THREE-DIMENSIONAL FEELING

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a woven fabric such as a woven name fabric or an emblem containing a hollow woven fabric or a double woven fabric and having a three- dimensional feeling with bulkiness in the fabric part.

SOLUTION: This woven fabric is obtained by heat-cutting a broad woven fabric 2 on first and second heat-cut lines CL1 and CL2 extending in the warp yarn direction and the weft yarn direction. The broad woven fabric 2 comprises first weave parts 3 of a desired width along the respective heat-cut lines CL1 and CL2 and second weave parts 4 divided with the first weave parts 3. The first weave parts 3 are woven into an integral construction of the right and the back sides by plain weave or twill weave and the second weave parts 4 are a two-layer weave containing the right fabric and the back fabric simultaneously woven with double weave such as a hollow weave. At least one of the right and back fabrics is composed of a warp yarn weave roughly fastened on the inner surface side thereof with weft yarns and the woven fabric such as the woven name fabric of emblem has a three-dimensional feeling with the second weave parts 4 swollen with the shrinkage of the warp yarns by heat-setting treatment.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

\* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

CLAIMS

---

[Claim(s)]

[Claim 1] In textiles which carried out heat cutting of the double width textiles, and manufactured them to the \*\*\*\* direction on the 1st [ which is extended along the direction of warp, and the direction of the woof ], and 2nd heat cutlines, such as a \*\* name and an emblem The 1st textile construction section of the request width of face to which said double width textiles met said 1st and 2nd heat cutlines, It consists of what has the 2nd textile construction section divided by said 1st textile construction section. Said 1st textile construction section is organized by two sides of the same coin by plain weave or twill. It becomes in the two-layer organization for which said 2nd textile construction section includes the frontal land and the lining cloth which were woven to coincidence with the double-cloth means of hollow weave and others. Textiles which have the cubic effect characterized by for either [ at least ] frontal land or lining cloth being constituted by the warp organization which stopped to the inside side coarsely by the woof, and making said 2nd textile construction section come to expand by the contraction of the warp by heat setting processing, such as a \*\* name and an emblem.

---

[Translation done.]

## \* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

## DETAILED DESCRIPTION

---

[Detailed Description of the Invention]

[0001]

[Field of the Invention] what this invention requires for the structure of textiles, such as a \*\* name, an emblem, or a tape, -- it is -- especially -- hollow weave -- the ground woven as the ground (double-cloth ground) -- a part -- containing -- this hollow weave -- it is related with textiles, such as a \*\* name which gave the swelling in the ground (double-cloth ground) and which has a cubic effect, and an emblem.

[0002]

[Description of the Prior Art] It is very common to attach the \*\* name which displayed the trademark, the grade of a manufacturer name or a product, etc. by attaching by sewing to the textiles of commercial clothes and commercial others as everyone knows, and there is very much the need and it is used for multiple purposes. this kind of a \*\* name or an emblem etc. -- the double-width ground -- it is constituted by weaving in a part for the display of alphabetic characters, such as a trademark, a notation, the crest, or other patterns into textiles at coincidence in the \*\* case which weaves textiles. Conventionally, it did not pass over the \*\* name which is the finished product finished weaving to what is constituted as a flat textile of one sheet, but it was deficient in variability in the semantics of a cubic effect.

[0003]

[Problem(s) to be Solved by the Invention] then, this invention -- the double-width ground -- the heat shrink yarn contracted by heat treatment with \*\* which weaves textiles with the double-cloth means of hollow weave and others is mixed, it is a heat treatment process after \*\*\*\*, said heat shrink yarn tends to be shrunk, the part woven with the double-cloth means of hollow weave and others tends to be swollen, and it is going to offer textiles with a cubic effect, such as a \*\* name and an emblem.

[0004]

[Means for Solving the Problem] In this invention attaining the purpose described above specifically In textiles which carried out heat cutting of the double width textiles, and manufactured them to the \*\*\*\* direction on the 1st [ which is extended along the direction of warp, and the direction of the woof ], and 2nd heat cutlines, such as a \*\* name and an emblem The 1st textile construction section of the request width of face to which said double width textiles met said 1st and 2nd heat cutlines, It consists of what has the 2nd textile construction section divided by said 1st textile construction section. Said 1st textile construction section is organized by two sides of the same coin by plain weave or twill. It has become in the two-layer organization for which said 2nd textile construction section includes the frontal land and the lining cloth which were woven to coincidence with the double-cloth means of hollow weave and others. Either [ at least ] frontal land or lining cloth is constituted by the warp organization which stopped to the inside side coarsely by the woof, and textiles which have the cubic effect which makes said 2nd textile construction section come to expand by the contraction of the warp by heat setting processing, such as a \*\* name and an emblem, are constituted.

[0005]

[Embodiment of the Invention] Textiles which have hereafter the cubic effect which becomes this invention, such as a \*\* name and an emblem, are explained to a detail based on the concrete example shown in a drawing. Drawing 1 each drawing shows the example of the manufacture process of

textiles, such as a \*\* name and an emblem, in which it has the cubic effect which becomes this invention, drawing 1 A is the rough top view showing an example of the double width textiles woven so that this invention might be suited, and drawing 1 B is the rough top view showing the mode which carries out heat cutting of the double width textiles to the \*\*\*\* direction on the 1st [ which is extended along the direction of warp, and the direction of the woof ], and 2nd heat cutlines.

[0006] Drawing 2 is the rough top view showing an example of a \*\* name which has the cubic effect by which heat cutting was carried out along with the 1st and 2nd heat cutlines. Drawing 3 each drawing It is a thing illustrating a different example which are shown by making it a cross section along with X-X-ray in drawing 2 . Drawing 3 A As the both sides of the frontal land which constitutes a hollow weave part, and lining cloth swell, it is rough X-X-ray sectional view showing the example which has carried out the organization configuration, and drawing 3 B is rough X-X-ray sectional view showing the example which has carried out the organization configuration so that one of the two of the frontal land which constitutes a hollow weave part, and lining cloth may swell.

[0007] Drawing 4 each drawing is what shows the example of the textile construction of each part in textiles which have the cubic effect which becomes this invention, such as a \*\* name and an emblem. Drawing 4 A It is the rough organization chart showing the 1st textile construction section organized by two sides of the same coin by plain weave or twill in the thing of the example shown in drawing 1 </A>. Drawing 4 B It is the rough organization chart showing the 2nd textile construction section which becomes in a two-layer organization including the frontal land and the lining cloth which were woven to coincidence with the double-cloth means of hollow weave and others.

[0008] First, textiles which have the cubic effect which becomes this invention, such as a \*\* name and an emblem, are explained to a detail based on the concrete example shown in a drawing. According to the basic configuration of this invention, 1, such as a \*\* name which has said cubic effect, is obtained from the double width textiles 2, carries out heat cutting of said double width textiles 2 on the 2nd heat cutline CL 2 extended along the heat cutline CL 1 and the direction of the woof of the 1st extended along the direction of warp to that \*\*\*\* direction WD, and is manufactured.

[0009] The concrete example of a configuration of said double width textiles 2 is explained to a detail based on drawing 1 and drawing 4 . The double width textiles 2 which become application of this invention consist of the 1st textile construction section 3 of request width of face in alignment with said 1st and 2nd heat cutlines, and the 2nd textile construction section 4 divided by said 1st textile construction section 3. The 1st textile construction section 3 in said double width textiles 2 It is designed beforehand, and is finished and the \*\* name 1 is followed. It is constituted by textile construction partial 3B which becomes in the 1st textile construction section 3 of request width of face in alignment with textile construction partial 3A and the 2nd heat cutline CL 2 which become in the 1st textile construction section 3 of request width of face in alignment with the 1st heat cutline CL 1 which should be carried out heat cutting.

[0010] As said 1st textile construction section 3 is shown for example, in drawing 4 A, two sides of the same coin organize by plain weave or twill, and said 2nd textile construction section 4 is organized by the two-layer organization which includes the frontal land 5 and the lining cloth 6 which were woven to coincidence with the double-cloth means of hollow weave and others as shown in drawing 4 B.

[0011] The frontal land 5, and lining cloth 6 at least one side which constitute said 2nd textile construction section 4 have the organization part with the warp 8 coarsely stopped to the inside side by the thin woof 7, can swell said 2nd textile construction section 4 by the contraction of the warp 8 by heat setting processing, and can manufacture the \*\* name 1 which has a cubic effect by this heat setting processing so that clearly also from drawing 4 B.

[0012] In this invention, the woof 9 which constitutes the thin woof 7 which stops said warp 8 coarsely, said 1st textile construction section 3, and the 2nd textile construction section 4 should just be constituted by the yarn which it is polyester or nylon, and said warp 8 is a thermoplastic synthetic fiber, for example, is contracted by 120 degrees C - 130 degrees C heat setting processing.

[0013]

[Effect of the Invention] According to the textiles which have the cubic effect of this invention which becomes the above configuration, such as a \*\* name and an emblem, conventionally, while

having a cubic effect, it can provide as the soft \*\* name of a touch, an emblem, a tape, etc., and it is rich in interest nature at the variability list of a design, and the product which could not be offered only as an one-layer-like \*\* name can be called what acts very effectively in that point.

---

[Translation done.]

## \* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

DESCRIPTION OF DRAWINGS

---

## [Brief Description of the Drawings]

[Drawing 1] Drawing 1 each drawing shows the example of the manufacture process of textiles, such as a \*\* name and an emblem, in which it has the cubic effect which becomes this invention, drawing 1 A is the rough top view showing an example of the double width textiles woven so that this invention might be suited, and drawing 1 B is the rough top view showing the mode which carries out heat cutting of the double width textiles to the \*\*\*\* direction on the 1st [ which is extended along the direction of warp, and the direction of the woof ], and 2nd heat cutlines.

[Drawing 2] Drawing 2 is the rough top view showing an example of a \*\* name which has the cubic effect by which heat cutting was carried out along with the 1st and 2nd heat cutlines.

[Drawing 3] Drawing 3 each drawing illustrates a different example are shown an example by making it a cross section along with X-X-ray in drawing 2 , drawing 3 A is the rough X-X-ray sectional view showing the example which has carried out the organization configuration, as the both sides of the frontal land which constitutes a hollow-weave part, and lining cloth swell, and drawing 3 B is the rough X-X-ray sectional view showing the example which has carried out the organization configuration so that one of the two of the frontal land which constitutes a hollow-weave part, and lining cloth may swell.

[Drawing 4] Drawing 4 each drawing is what shows the example of the textile construction of each part in textiles which have the cubic effect which becomes this invention, such as a \*\* name and an emblem. Drawing 4 A It is the rough organization chart showing the 1st textile construction section organized by two sides of the same coin by plain weave or twill in the thing of the example shown in drawing 1 . Drawing 4 B It is the rough organization chart showing the 2nd textile construction section which becomes in a two-layer organization including the frontal land and the lining cloth which were woven to coincidence with the double-cloth means of hollow weave and others.

## [Description of Notations]

1 \*\* Name Which Has Cubic Effect

2 Double Width Textiles

WD The \*\*\*\* direction of the double width textiles 2

CL1 1st heat cutline

CL2 2nd heat cutline

3 1st Textile Construction Section

3A The 1st textile construction part in alignment with the 1st heat cutline CL 1

3B The 1st textile construction part in alignment with the 2nd heat cutline CL 2

4 2nd Textile Construction Section

5 Frontal Land of Hollow Weave

6 Lining Cloth of Hollow Weave

7 Thin Woof Which Stops Warp Coarsely

8 Warp

9 Woof Which Constitutes 1st and 2nd Textile Construction Sections

---

[Translation done.]

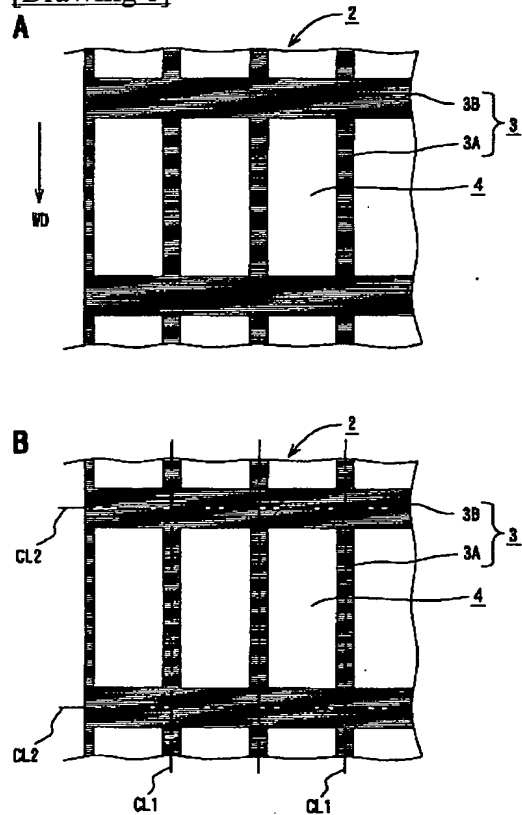
## \* NOTICES \*

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

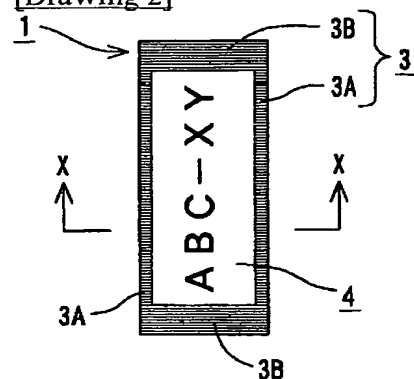
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

## DRAWINGS

[Drawing 1]

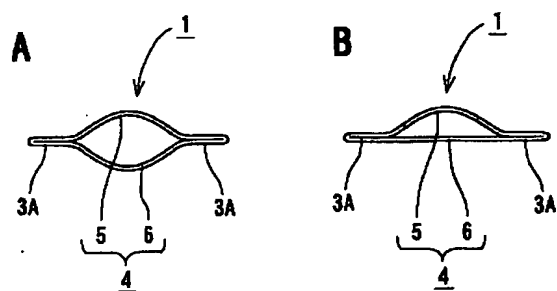


[Drawing 2]

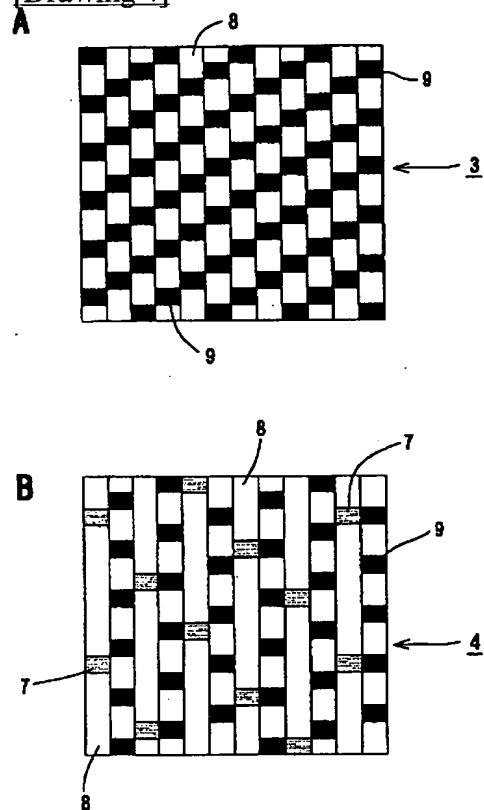


[Drawing 3]

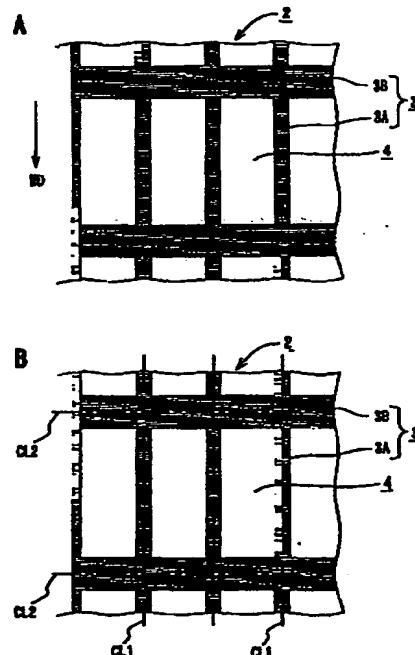




[Drawing 4]



[Translation done.]



## 【特許請求の範囲】

【請求項1】 広幅織物を織成方向に対し、経糸方向および緯糸方向に沿ってのびる第1および第2のヒートカットライン上でヒートカットして製造した織ネーム、ワッペン等の織物において、前記広幅織物が、前記第1および第2のヒートカットラインに沿った所望幅の第1の織組織部と、前記第1の織組織部によって区画される第2の織組織部とを有するものからなり、前記第1の織組織部が、平織あるいは綾織により表裏一体に組織されており、前記第2の織組織部が、袋織その他の二重織手段によって同時に織成した表地および裏地を含む2層組織であり、表地および裏地の少なくとも一方が、その内面側において緯糸により粗くとめた経糸組織により構成されており、ヒートセット処理による経糸の縮みにより前記第2の織組織部を膨脹させてなることを特徴とする立体感を有する織ネーム、ワッペン等の織物。

## 【発明の詳細な説明】

## 【0001】

【発明の属する技術分野】この発明は、織ネーム、ワッペン、あるいはテープ等の織物の構造に係るものであり、特に、袋織生地（二重織生地）として織成した生地部分を含み、該袋織生地（二重織生地）において膨らみをもたせた、立体感を有する織ネーム、ワッペン等の織物に関するものである。

## 【0002】

【従来の技術】周知のように、市販の衣服その他の繊維製品に対し、商標や製造者名あるいは製品の等級等を表示した織ネーム等を縫着により取り付けることは極めて一般的なものであって、その需要は極めて多く、多目的に利用されてきている。この種の織ネームあるいはワッペン等は、広幅の生地織物を織成する際に、商標等の文字、記号、紋様或いはその他の模様を表示部分を織物中に同時に織り込むことによって構成されるものである。従来、織り上げられた完成品である織ネームは、一枚の扁平な布帛として構成されているものにすぎず、立体感という意味において変化性の乏しいものであった。

## 【0003】

【発明が解決しようとする課題】そこで、この発明は、広幅の生地織物を袋織その他の二重織手段によって織成するとともに、熱処理によって収縮する熱収縮糸を混ぜ合わせ、織成後の熱処理過程で、前記熱収縮糸を収縮させ、袋織その他の二重織手段によって織成した部分を膨らませ、立体感のある織ネーム、ワッペン等の織物を提供しようとするものである。

## 【0004】

【課題を解決するための手段】この発明は、上記する目的を達成するにあたって、具体的には、広幅織物を織成方向に対し、経糸方向および緯糸方向に沿ってのびる第1および第2のヒートカットライン上でヒートカットして製造した織ネーム、ワッペン等の織物において、前記

広幅織物が、前記第1および第2のヒートカットラインに沿った所望幅の第1の織組織部と、前記第1の織組織部によって区画される第2の織組織部とを有するものからなり、前記第1の織組織部が、平織あるいは綾織により表裏一体に組織されており、前記第2の織組織部が、袋織その他の二重織手段によって同時に織成した表地および裏地を含む2層組織であり、表地および裏地の少なくとも一方が、その内面側において緯糸により粗くとめた経糸組織により構成されており、ヒートセット処理による経糸の縮みにより前記第2の織組織部を膨脹させてなる立体感を有する織ネーム、ワッペン等の織物を構成するものである。

## 【0005】

【発明の実施の形態】以下、この発明になる立体感を有する織ネーム、ワッペン等の織物について、図面に示す具体的な実施例にもとづいて詳細に説明する。図1各図は、この発明になる立体感を有する織ネーム、ワッペン等の織物の製造過程の例を示すものであり、図1Aは、この発明に適合するように織成された広幅織物の一例を示す概略的な平面図であり、図1Bは、広幅織物を織成方向に対し、経糸方向および緯糸方向に沿ってのびる第1および第2のヒートカットライン上でヒートカットする態様を示す概略的な平面図である。

【0006】図2は、第1および第2のヒートカットラインに沿ってヒートカットされた立体感を有する織ネームの一例を示す概略的な平面図であり、図3各図は、図2におけるX-X線に沿って断面にして示す異なる実施例を図示するものであり、図3Aは、袋織部分を構成する表地および裏地の双方が膨らむように組織構成してある具体例を示す概略的なX-X線断面図であり、図3Bは、袋織部分を構成する表地および裏地の片方が膨らむように組織構成してある具体例を示す概略的なX-X線断面図である。

【0007】図4各図は、この発明になる立体感を有する織ネーム、ワッペン等の織物において、各部の織組織の例を示すものであって、図4Aは、図1に示す実施例のものにおいて、平織あるいは綾織により表裏一体に組織されている第1の織組織部を示す概略的な組織図であり、図4Bは、袋織その他の二重織手段によって同時に織成した表地および裏地を含む2層組織である第2の織組織部を示す概略的な組織図である。

【0008】まず、この発明になる立体感を有する織ネーム、ワッペン等の織物について、図面に示す具体的な実施例にもとづいて詳細に説明する。この発明の基本構成によれば、前記立体感を有する織ネーム等1は、広幅織物2から得られるものであり、前記広幅織物2を、その織成方向WDに対して、経糸方向に沿ってのびる第1のヒートカットラインCL1および緯糸方向に沿ってのびる第2のヒートカットラインCL2上でヒートカットして製造される。

【0009】前記広幅織物2の具体的な構成例について図1および図4にもとづいて詳細に説明する。この発明の適用になる広幅織物2は、前記第1および第2のヒートカットラインに沿った所望幅の第1の織組織部3と、前記第1の織組織部3によって区画される第2の織組織部4とからなっている。前記広幅織物2における第1の織組織部3は、予めデザインされる仕上がり織ネーム1にしたがって、ヒートカットすべき第1のヒートカットラインCL1に沿った所望幅の第1の織組織部3でなる織組織部分3Aおよび第2のヒートカットラインCL2に沿った所望幅の第1の織組織部3でなる織組織部分3Bとによって構成されている。

【0010】前記第1の織組織部3は、例えば、図4Aに示すように、平織あるいは綾織により表裏一体に組織されており、前記第2の織組織部4は、例えば、図4Bに示すように、袋織その他の二重織手段によって同時に織成した表地5および裏地6を含む2層組織によって組織されている。

【0011】前記第2の織組織部4を構成する表地5および裏地6少なくとも一方は、図4Bからも明かなように、その内面側において細い緯糸7により粗くとめた経糸8による組織部分を有しており、ヒートセット処理による経糸8の縮みにより前記第2の織組織部4を膨らませることができ、該ヒートセット処理によって、立体感を有する織ネーム1を製造することができる。

【0012】この発明において、前記経糸8を粗くとめる細い緯糸7および前記第1の織組織部3および第2の織組織部4を構成している緯糸9は、ポリエステルあるいはナイロンであり、前記経糸8は、熱可塑性の合成繊維であって、例えば、120℃～130℃のヒートセット処理によって収縮する糸によって構成されているものであればよい。

【0013】

【発明の効果】以上の構成になるこの発明の立体感を有する織ネーム、ワッペン等の織物によれば、従来、一層状の織ネームとしてしか提供し得なかった製品を、立体感を有するとともにソフトなタッチの織ネーム、ワッペン、テープ等として提供することができるものであって、デザインの变化性並びに興味性に富んだものであり、その点において、極めて有効に作用するものといえる。

【図面の簡単な説明】

【図1】図1各図は、この発明になる立体感を有する織

ネーム、ワッペン等の織物の製造過程の例を示すものであり、図1Aは、この発明に適合するように織成された広幅織物の一例を示す概略的な平面図であり、図1Bは、広幅織物を織成方向に対し、経糸方向および緯糸方向に沿ってのびる第1および第2のヒートカットライン上でヒートカットする態様を示す概略的な平面図である。

【図2】図2は、第1および第2のヒートカットラインに沿ってヒートカットされた立体感を有する織ネームの一例を示す概略的な平面図である。

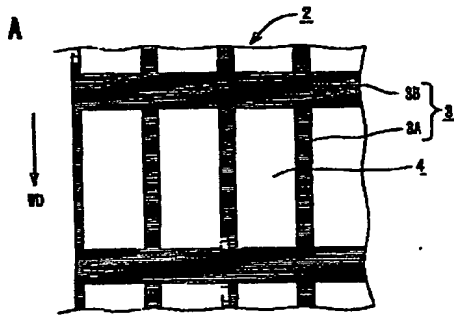
【図3】図3各図は、図2におけるX-X線に沿って断面にして示す異なる実施例を図示するものであり、図3Aは、袋織部分を構成する表地および裏地の双方が膨らむように組織構成してある具体例を示す概略的なX-X線断面図であり、図3Bは、袋織部分を構成する表地および裏地の片方が膨らむように組織構成してある具体例を示す概略的なX-X線断面図である。

【図4】図4各図は、この発明になる立体感を有する織ネーム、ワッペン等の織物において、各部の織組織の例を示すものであって、図4Aは、図1に示す実施例のものにおいて、平織あるいは綾織により表裏一体に組織されている第1の織組織部を示す概略的な組織図であり、図4Bは、袋織その他の二重織手段によって同時に織成した表地および裏地を含む2層組織でなる第2の織組織部を示す概略的な組織図である。

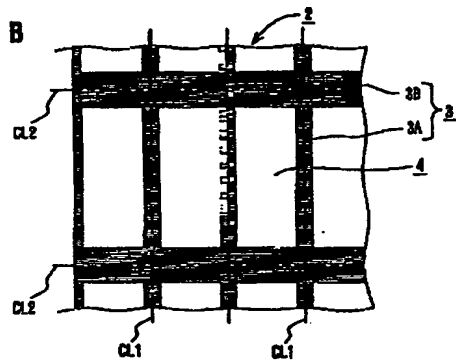
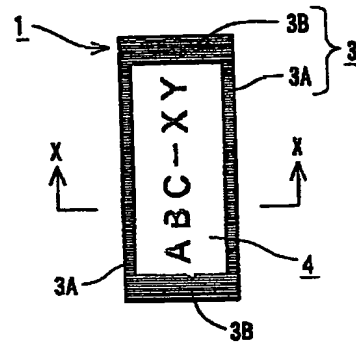
【符号の説明】

- 1 立体感を有する織ネーム等
- 2 広幅織物
- WD 広幅織物2の織成方向
- CL1 第1のヒートカットライン
- CL2 第2のヒートカットライン
- 3 第1の織組織部
- 3A 第1のヒートカットラインCL1に沿った第1の織組織部分
- 3B 第2のヒートカットラインCL2に沿った第1の織組織部分
- 4 第2の織組織部
- 5 袋織の表地
- 6 袋織の裏地
- 7 経糸を粗くとめる細い緯糸
- 8 経糸
- 9 第1および第2の織組織部を構成している緯糸

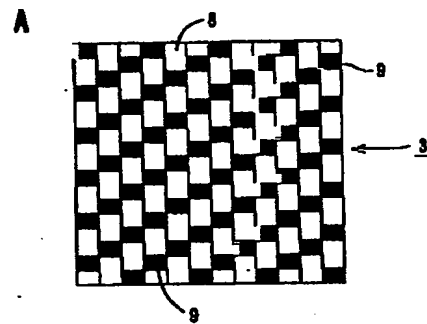
【図1】



【図2】



【図4】



【図3】

